CYTO-SAT: A self-assessment tool for safe handling of cytotoxic medicines in low and middle-income countries

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THE RISING BURDEN OF CANCER

- Great concern in low and middle income-countries (LMIC)\(^1,2\)

- Cancer prevention and control are part of the global agenda \(^3\)

- Substantial efforts are made to increase access to affordable and quality cytotoxic drugs for chemotherapies in LMIC \(^4\)

  - BUT safe handling is still a neglected aspect and unsafe practices have been reported \(^5,6\)

Références:
OBJECTIVES

- To Develop
- To Validate
- To Pilot-test

... in order to **support the implementation** of safe handling practices and **promote continuous quality improvement** regarding cytotoxic drugs management in LMICs.
METHOD

2016
- Literature review
  - Steering committee
  - Draft checklist

2017
- International Expert Panel

2018
- 2-round Delphi survey
  - In French and English

2019
- Pre-testing
  - 134 items
  - 2 participants (FR+EN)
  - No problem notified
- Pilot-Testing
Characteristics of the experts

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>High-income countries</td>
<td>14</td>
<td>(51.9%)</td>
</tr>
<tr>
<td>LMIC</td>
<td>13</td>
<td>(48.1%)</td>
</tr>
<tr>
<td>Experience with cytotoxics (years): median (Q1-Q3)</td>
<td>10</td>
<td>(4-18)</td>
</tr>
</tbody>
</table>
Level of agreement: 1 « strongly disagree » to 5 « totally agree »

Prioritization: 1 « essential » - 2 « very important » - 3 « desirable »

Validation rule: \[ \geq 65\% \] of agreement

Consensus: \[ \geq 75\% \] of agreement

134 items validated

98\% (134/137) items reached consensus for their content and formulation
PRIORITIZATION

- 134 validated items

39% (52) items reached priority consensus
Cyto-SAT

SAFE HANDLING OF CYTOTOXIC MEDICINES: A SELF-ASSESSMENT TOOL ADAPTED TO RESOURCE-CONSTRAINED SETTINGS

- Information about the institution
- Self-assessment tool
- Results summary
- Action plan
- Self-assessment evaluation survey

34 healthcare facilities
27 countries
Median nb of person/assessment team = 3 (min=1 and max=12)

96% global satisfaction
Median nb of person/assessment team = 3 (min=1 and max=12)

What kind of support would you benefit the most to improve your practices?

- Training
- Mentoring
- Collaboration between institutions, sharing of experience with other contexts
- Support for provision of equipment (BSc, PPE, spill kit etc.)
- Support from National authorities
CONCLUSION

**Cyto-SAT** is a new self-assessment tool for safe handling of cytotoxic medicines

- Covers the entire cytotoxic process with 134 items and 10 domains.
- Validated by a large panel of highly experienced experts in oncology pharmacy
- Adapted to LMIC
- Available on [www.Pharm-Ed.net](http://www.Pharm-Ed.net)
WHAT’S NEXT?

Training materials
- E-learning modules
- Video tutorials
- Support documents (SOPs, Checklists etc.)
- Workshop

available on:

Pharm-Ed.net

Impact assessment of a blended-learning module in pilot sites
AKNOWLEDGMENTS

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• The healthcare facilities
THANK YOU FOR YOUR ATTENTION

See also Poster 136 «Safe handling of cytotoxic medicines in low and middle-income countries - An overview of practices»

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